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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/550,881	09/27/2005	Hugo Johan Cornelissen	NL 030300	1545

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P.O. BOX 3001
BRIARCLIFF MANOR, NY 10510

EXAMINER

HEYMAN, JOHN S

ART UNIT	PAPER NUMBER
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2871

MAIL DATE	DELIVERY MODE
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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/550,881	Applicant(s) CORNELISSEN, HUGO JOHAN	
	Examiner John Heyman	Art Unit 2871	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 September 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 and 14-18 is/are rejected.
- 7) ☒ Claim(s) 12 and 13 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 27 September 2005 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>09/27/2005</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on 09/27/2005 was filed after the mailing date of the instant application on 09/27/2005. The submission is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement has been considered by the examiner.

Drawings

3. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the features recited in Claims 2, 13 and 16 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate

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changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 16 recites the limitation "the rows" in line 2. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

7. Claims 1, 3-9, 14-17 rejected under 35 U.S.C. 102(a) as being anticipated by Ida et al (Ida – US 6,799,859). Ida shows a display panel fully anticipating these claims under 35 USC 102. Thus, the light redirection element, light guide, first light source and

second light source are anticipated respectively by redirection element (prism sheet) 20, light guide 12-3, first light source 14 and second light source 14'. Note that redirection element 20 has a first groove structure 20-1 seen in Figs. 3 and 4, and light guide 12-3 has a second groove structure 12-3 seen in Fig. 2C, which operate to inherently direct light in first and second angular directions as recited. See for example, col. 7 line 26. Note col. 12 line 48 wherein a "cold cathode" tube is disclosed for the light source to meet Claim 14, and, col. 1 line 57 for a liquid crystal display to meet Claim 15, and, insofar as definite, that the first and second grooves are inherently perpendicular to the rows of an LCD panel as recited in Claim 16. The method steps recited in Claim 17 are inherently met by Ida as the structure employed to perform the function is the same as shown by Ida. Regarding Claims 3, 4, 6 and 8, see: Fig. 5 to show that the first and second groove structures are arranged in an opposed configuration to meet Claim 3; Fig. 3 to show a triangular cross section for the first groove structure to meet Claim 4; Fig. 2C to show a triangular cross section for the second groove structure to meet Claim 6; and col. 1 line 58 wherein Ida discloses that a viewer's eyes intersect a screen normal (perpendicular) to the display panel as recited in Claim 8. Regarding Claims 5 and 7, see col. 8 line 35 which discloses that an alpha angle is within the range recited in claim 5, and col. 6 line 64 which discloses an angle of 150 degrees to meet the recitation of Claim 7.

Claim Rejections - 35 USC § 103

8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

9. Claims 2, 10, 11 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Masahiro (JP 2001-066547) taken with Ida. Masahiro shows first and second light sources 2a and 2b, a light guide 101-102 and a redirection element 6 (prism film). Masahiro discloses that the light sources are alternately illuminated to meet Claims 2 and 18; and to provide a 3D stereoscopic image as recited in Claims 10; which inherently provides first and second user images as recited in Claim 11. See the Abstract for this publication. What is not shown is the prism (second groove structure recited) surface for the light guide. Ida shows this feature in Fig. 2C therein. It would have been obvious under 35 USC 103 to employ a prism surface on a light guide in a manner taught by Ida in the stereoscopic structure of Masahiro for the reason given in Ida, namely, to generate "uniform and high intensity" light on the "whole surface" in, e.g., a "liquid crystal monitor". See col. 1 line 54 of Ida.

Allowable Subject Matter

10. Claims 12 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

11. The following is a statement of reasons for the indication of allowable subject matter: None of the references teach first and second light sources that can be alternately illuminated for 3D image display and then simultaneously illuminated for 2D image display.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shibata shows two light sources, a light guide and a prism sheet in combination. Robillard et al shows controllable light sources for an LCD, and Woodgate shows 3D/2D display modes for a stereoscopic device. These references should be carefully reviewed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Heyman whose telephone number is 571 272-5730. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571- 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSH


ANDREW SCHECHTER
PRIMARY EXAMINER